[00029] Having thus described the invention, what is claimed is:

1	 A disc cutterhead for a rotary mower, said cutterhead comprising:
2	a low-profile generally bowl-shaped generally symmetrical cover with an
3	upper generally convex side, an opposing generally concave underside and a
4	peripheral edge;
5	a plurality of quick change knife attachment systems generally
6	symmetrically located around said peripheral edge, each said knife attachment
7	system including:
8	an elongate spring plate having a longitudinal axis and a transverse
9	axis perpendicular to said longitudinal axis, a first end portion and an opposing
10	second end portion with a middle portion therebetween, all three portions aligned
11	along said longitudinal axis, and said middle portion having a curvilinear
12	longitudinal side profile with bends therein, said first end portion rigidly affixed to
13	said concave underside of said cover;
14	a cylindrical knife pin affixed to said concave underside of said
15	cover adjacent said peripheral edge and depending therefrom;
16	an elongate knife with a first end and an opposing second end, said
17	first end including a cutting edge and said second end having a hole
18	therethrough with a diameter slightly larger than the diameter of said cylindrical
19	knife pin;
20	said second end portion of said spring plate having a hole
21	therethrough with a diameter slightly larger than the diameter of said cylindrical
22	knife pin;
23	said bends in said middle portion of said spring plate being such
24	that, with said hole in said knife fitted onto said knife pin and said knife pin
25	extending into and through said hole in said second end portion of said spring
26	plate, said second end portion of said spring plate is biased toward said
27	underside of said cover, whereby said knife is held in operating position.

- 1 2. The cutterhead of claim 1, wherein:
- 2 said cover has a central vertical axis of rotation with a radial vertical
- 3 planes extending from said axis of rotation outwardly to each of said knife pins.

- 1 3. The cutterhead of Claim 2, wherein:
- 2 said longitudinal axis of said spring plate of each attachment system is
- 3 generally aligned with the respective said radial vertical plane.
- 1 4. The cutterhead of claim 3, wherein:
- 2 said spring plate is comprised of spring steel.
- 1 5. The cutterhead of claim 4, wherein:
- 2 said plurality of quick change knife attachment systems comprises two
- 3 such systems.

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- 1 6. In a disc cutterhead for a rotary mower, said cutterhead comprising a
- 2 generally symmetrical cover with an upper generally convex side, an opposing
- 3 generally concave underside and a peripheral edge, a plurality of knife
- 4 attachment systems generally symmetrically located around said peripheral
- 5 edge, the improvement wherein:
 - each said knife attachment system includes:
- 7 an elongate spring plate having a longitudinal axis and a transverse
- 8 axis perpendicular to said longitudinal axis, a first end portion and an opposing
- 9 second end portion with a middle portion therebetween, all three portions aligned
- 10 along said longitudinal axis, and said middle portion having a curvilinear
- 11 longitudinal side profile with bends therein, said first end portion rigidly affixed to
- 12 said concave underside of said cover;
- 13 a cylindrical knife pin affixed to said concave underside of said
- 14 cover adjacent said peripheral edge and depending therefrom;
- an elongate knife with a first end and an opposing second end, said
- 16 first end including a cutting edge and said second end having a hole
- 17 therethrough with a diameter slightly larger than the diameter of said cylindrical
- 18 knife pin;

19 said second end portion of said spring plate having a hole 20 therethrough with a diameter slightly larger than the diameter of said cylindrical 21 knife pin; 22 said bends in said middle portion of said spring plate being such 23 that, with said hole in said knife fitted onto said knife pin and said knife pin 24 extending into and through said hole in said second end portion of said spring 25 plate, said second end portion of said spring plate is biased toward said 26 underside of said cover, whereby said knife is held in operating position.

7. The improvement of claim 6, wherein:

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said cover has a central vertical axis of rotation with a radial vertical
planes extending from said axis of rotation outwardly to each of said knife pins.

- 1 8. The cutterhead of claim 7, wherein:
- 2 said longitudinal axis of said spring plate of each attachment system is
- 3 generally aligned with the respective said radial vertical plane.
- 1 9. The cutterhead of claim 8, wherein:
- 2 said spring plate is comprised of spring steel.
- 1 10. The cutterhead of claim 4, wherein:
- 2 said plurality of quick change knife attachment systems comprises two
- 3 such systems.

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- 1 11. A rotary mower comprising:
- a disc cutterbar made up of a plurality of cutterheads arranged in a row on
- 3 an elongated support member;
 - an enclosed drive mechanism affixed to said support member and driving
- 5 each of said plurality of cutterheads, each cutterhead comprising:
- 6 generally symmetrical cover with an upper generally convex side, an
- 7 opposing generally concave underside and a peripheral edge, a plurality of knife
- 8 attachment systems generally symmetrically located around said peripheral
- 9 edge, the improvement wherein:
- 10 each said knife attachment system includes:
- an elongate spring plate having a longitudinal axis and a transverse
- 12 axis perpendicular to said longitudinal axis, a first end portion and an opposing
- 13 second end portion with a middle portion therebetween, all three portions aligned
- 14 along said longitudinal axis, and said middle portion having a curvilinear
- 15 longitudinal side profile with bends therein, said first end portion rigidly affixed to
- 16 said concave underside of said cover;
- 17 a cylindrical knife pin affixed to said concave underside of said
- 18 cover adjacent said peripheral edge and depending therefrom;

an elongate knife with a first end and an opposing second end, said 1 first end including a cutting edge and said second end having a hole 2 therethrough with a diameter slightly larger than the diameter of said cylindrical 3 4 knife pin; said second end portion of said spring plate having a hole 5 therethrough with a diameter slightly larger than the diameter of said cylindrical 6 7 knife pin; said bends in said middle portion of said spring plate being such that, with 8 said hole in said knife fitted onto said knife pin and said knife pin extending into 9 and through said hole in said second end portion of said spring plate, said 10 second end portion of said spring plate is biased toward said underside of said 11 12 cover, whereby said knife is held in operating position. 12. 1 The rotary mower of claim 11, wherein: said cover has a central vertical axis of rotation with a radial vertical 2 planes extending from said axis of rotation outwardly to each of said knife pins.

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- 1 13. The cutterhead of Claim 12, wherein:
- 2 said longitudinal axis of said spring plate of each attachment system is
- 3 generally aligned with the respective said radial vertical plane.
- 1 14. The cutterhead of claim 13, wherein:
- 2 said spring plate is comprised of spring steel.
- 1 15. The cutterhead of claim 14, wherein:
- 2 said plurality of quick change knife attachment systems comprises two
- 3 such systems.